Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently Amended)** An intraocular lens

having a configuration such that, in ~~each~~ an ~~immersion medium~~ in vivo environment of an eye, an incoming wave with an elliptically oblongly curved wave front is refracted into an outgoing wave with a substantially spherical wave front.

2. **(Currently Amended)** An intraocular lens according to claim 1,

wherein the lens has a positive refractive power in the environment ~~of immersion medium~~ and a negative spherical aberration.

3. **(Currently Amended)** An intraocular lens according to claim 2,

wherein the lens has a refractive power at the center of the lens which in the environment ~~of immersion medium~~ is greater than or equal to +3 dpt, and wherein the lens is so configured that, in an air environment, an incoming wave with a substantially plane wave front is refracted into an outgoing wave with a hyperbolic wave front.

4. **(Previously Presented)** An intracular lens according to claim 3,

wherein the hyperbolic wave front has an asphericity of less than or equal to -5.

5. **(Previously Presented)** An intraocular lens according to claim 3,

wherein the lens has at least one convexly curved surface whose curvature has an asphericity of less than or equal to -1.

6. **(Currently Amended)** An intraocular lens according to claim 1,

wherein the lens has a refractive power at the center of the lens which in the ~~immersion medium~~ environment is at most +2 dpt and at least -1 dpt, and wherein the lens is so configured that an incoming wave with a substantially plane wave front is refracted into an outgoing wave whose apex surface has a meridian with an inflexion point.

7. **(Currently Amended)** An intraocular lens according to claim 1,

wherein the lens has a refractive power at the center of the lens which in the ~~immersion medium~~ environment is less than or equal to -2 dpt, and wherein the lens is so configured that an incoming wave with a substantially plane wave front is refracted into an outgoing wave with an elliptically oblongly curved wave front whose aspericity measured in air is greater than + 10.

8.   **(Currently Amended)**   A method of determining ~~the~~ imaging properties of an intraocular lens, <u>according to claim 1,</u> comprising:

- producing a parallel light beam,

- orienting the light beam [[on to]] <u>onto</u> the intraocular lens,

- breaking the light beam refracted by the intraocular lens down into a plurality of focused beams via a lens arrangement, and

- detecting local distribution of the focus beams focused by the lens arrangement.

9.   **(Previously Presented)**   An intraocular lens according to claim 5, wherein the hyperbolic wave front has an asphericity of less than or equal to -5.